

Set	Items	Description
S1	11252768	TEMPLAT? OR FORM OR FORMS OR FORMAT? OR CHART? OR GRAPH? OR PATTERN?
S2	5029895	DNA OR RNA OR CDNA OR MRNA OR (NUCLEOTIDE? OR BASE OR GENETIC? OR AMINO()ACID? OR PROTEIN? OR GENE) ()SEQUENC?
S3	1076324	PROBE? OR PROBEARRAY?
S4	1618515	IDENTIFIER? OR ID OR DATA()STRUCTUR? OR LABEL? OR TAG OR TAGGED OR TAGGING OR TAGS OR FLAGS OR FLAGGING OR FLAGGED
S5	3705019	RADIOACTIV? OR ISOTOP? OR ION? ?
S6	1101457	DATABASE? OR DATABANK? OR DATAMIN? OR DATA() (BASE? OR BANK? OR MINE? OR MINING OR VALUE?) OR DB OR RDB? OR DBMS? OR OODB?
S7	74678	S1 AND S2 AND S3
S8	156	S1 AND S2 AND S4 AND S5 AND S6
S9	24	S7 AND S8
S10	0	S1(5N)S3 AND S9
S11	0	S1(3N)S3 AND S8
S12	97	S2(2N)S3 AND S1 AND S4 AND S6
S13	110	S9 OR S12
S14	31	S8 AND (MANAGE? OR ADMINIST? OR CONTROL?)
S15	137	S13 OR S14
S16	84	RD (unique items)
S17	58	S16 NOT PY>2001
S18	54	S17 NOT PD>20010719
File	8: Ei Compendex(R) 1970-2004/Mar W3	(c) 2004 Elsevier Eng. Info. Inc.
File	35: Dissertation Abs Online 1861-2004/Feb	(c) 2004 ProQuest Info&Learning
File	65: Inside Conferences 1993-2004/Mar W4	(c) 2004 BLDSC all rts. reserv.
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File	111: TGG Natl. Newspaper Index (SM) 1979-2004/Mar 31	(c) 2004 The Gale Group
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File	144: Pascal 1973-2004/Mar W3	(c) 2004 INIST/CNRS
File	34: SciSearch(R) Cited Ref Sci 1990-2004/Mar W3	(c) 2004 Inst for Sci Info
File	62: SPIN(R) 1975-2004/Feb W2	(c) 2004 American Institute of Physics
File	99: Wilson Appl. Sci & Tech Abs 1983-2004/Feb	(c) 2004 The HW Wilson Co.
File	5: Biosis Previews(R) 1969-2004/Mar W3	(c) 2004 BIOSIS
File	73: EMBASE 1974-2004/Mar W3	(c) 2004 Elsevier Science B.V.
File	154: MEDLINE(R) 1990-2004/Mar W4	(c) format only 2004 The Dialog Corp.

18/5/2 (Item 2 from file: 35)
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01152610 ORDER NO: AAD91-11031

GENES EXPRESSED DURING OOGENESIS IN CALLIPHORA ERYTHROCEPHALA AND DROSOPHILA MELANOGASTER

Author: DE VALOIR, TAMSEN VIVIANNE

Degree: PH.D.

Year: 1990

Corporate Source/Institution: RICE UNIVERSITY (0187)

Adviser: K. BECKINGHAM

Source: VOLUME 51/11-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 5156. 153 PAGES

Descriptors: BIOLOGY, MOLECULAR; BIOLOGY, ENTOMOLOGY; BIOLOGY, GENETICS

Descriptor Codes: 0307; 0353; 0369

We were interested in identifying genes in the dipteran flies *Calliphora erythrocephala* and *Drosophila melanogaster* with a role in oogenesis and early embryogenesis. A biochemical screen was used to complement the extensive genetic screens that have been performed to identify such genes in *Drosophila*. Radio- labelled cDNA probes were made using poly(A)⁺ RNA preparations from staged *Calliphora* ovaries and embryos. These probes were used to isolate clones which were strongly expressed during oogenesis but not during embryogenesis.

Four *Calliphora* genes which are absolutely "oogenesis-specific" in their expression pattern, as defined by our screening protocol, were identified. These are called A10B, B8I, C7F and GG7K. Three of these clones are expressed in the somatically derived follicle cells of the ovary and have been identified as being homologous to the *Drosophila* yolk protein 1 (A10B and B8I) and a vitelline membrane protein (GG7K). Interestingly, the yolk protein homologs are expressed in a specialized subset of follicle cells known as the border cells in *Calliphora*. The fourth gene, (C7F) is expressed in the nurse cells, the transcripts are translocated to the oocyte proper and maintained throughout the first four hours of embryogenesis. C7F is also expressed in late pupae and adult male flies.

A number of *Calliphora* genes were identified which, although not oogenesis-specific, were more strongly expressed in the oocyte than the embryo. These were classified as "oogenesis-differentials". C7F and the *Calliphora* oogenesis-differential genes were used to screen *Drosophila* cDNA and genomic libraries for homologs. Some characterization of these *Drosophila* homologs is described here.

ME31B, a maternally expressed *Drosophila* gene from the 31B region of the second chromosome was isolated by directly screening *Drosophila* libraries with *Calliphora* cDNA probes. ME31B is expressed throughout oogenesis and the transcript is maintained in the mature egg until four hours after fertilization. The ME31B transcript is evenly distributed throughout the oocyte and egg.

A 1.5 kb cDNA for ME31B was completely sequenced. Comparison of the coding sequence with a protein data bank allowed us to show that ME31B is a member of a family of NTP-dependent helicases. The possible mutant phenotype of ME31B is discussed.

18/5/5 (Item 2 from file: 144)
DIALOG(R) File 144:Pascal
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14674300 PASCAL No.: 00-0347724

Comprehensive gene expression profile of the adult human renal cortex :

Analysis by cDNA array hybridization

YANO N; ENDOH M; FADDEN K; YAMASHITA H; KANE A; SAKAI H; RIFAI A

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School of Medicine, Providence, Rhode Island, United States; Division of
Nephrology and Metabolism, Department of Internal Medicine, Tokai
University School of Medicine, Kanagawa, Japan

Journal: Kidney international, 2000, 57 (4) 1452-1459

ISSN: 0085-2538 CODEN: KDYIA5 Availability: INIST-15906;

354000082190090330

No. of Refs.: 19 ref.

Document Type: P (Serial) ; A (Analytic)

Country of Publication: United States

Language: English

Background. Profiling of gene expression in healthy and diseased renal tissue is important for elucidating the pathogenesis of renal diseases. Comprehensive information about the genes expressed in renal tissue is unavailable. The recently developed cDNA array hybridization methodology allows simultaneous monitoring of thousands of genes expressed renal tissue. **Methods.** Complex (alpha - SUP 3 SUP 3 P)- labeled cDNA probes were prepared from histopathologically uninvolved remnants of nine renal tissues obtained by nephrectomy. Each probe was hybridized to a high-density array of 18,326 paired target genes. The radioactive hybridization signals by phosphorimager screens were quantitated by special software. Bioinformatics from public genomic databases were used to assign a chromosomal location of each expressed transcript and gene function. Cluster analysis was used to arrange genes according to the similarity in pattern of gene expression. **Results,** A total of 7563 different gene transcripts was detected in the nine tissue samples. Approximately 870 of these genes were full-length mRNA human transcripts (HT), and the remaining 6693 were expressed sequence tags (ESTs). The full-length transcripts were classified by function of the gene product and were listed with information of their chromosomal positions. To allow a comparison between gene expression in clinical and experimental studies, the mouse genes with known similar function to the human counterpart were included in the bioinformatics analysis. Cluster analysis of 502 full-length genes that are expressed in four or more renal tissues revealed more than 110 genes that are highly expressed in all the renal specimens. **Conclusions.** The presented data constitute a comprehensive preliminary transcriptional map of the adult human renal cortex. The information may serve as a resource for speeding up the discovery of genes underlying human renal disease. The integrated listing of the full-length expressed human and mouse genes is available through e-mail (AbdallaRifai@Brown.edu).

English Descriptors: Renal cortex; Kidney; Transcription; RNA ; DNA ;
Genetic determinism; Human

Broad Descriptors: Urinary system; Appareil urinaire; Aparato urinario

French Descriptors: Corticale renale; Rein; Transcription; RNA ; DNA ;

18/5/12 (Item 3 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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07528183 Genuine Article#: 176KD Number of References: 19

Title: **Expression profiling in cancer using cDNA microarrays**

Author(s): Khan J; Saal LH; Bittner ML; Chen YD; Trent JM; Meltzer PS
(REPRINT)

Corporate Source: NATL HUMAN GENOME RES INST,CANC GENET BRANCH, NIH, BLDG
49, ROOM 4A10, 49 CONVENT DR/BETHESDA//MD/20892 (REPRINT); NATL HUMAN
GENOME RES INST,CANC GENET BRANCH, NIH/BETHESDA//MD/20892

Journal: ELECTROPHORESIS, 1999, V20, N2 (FEB), P223-229

ISSN: 0173-0835 Publication date: 19990200

Publisher: WILEY-V C H VERLAG GMBH, MUHLENSTRASSE 33-34, D-13187 BERLIN,
GERMANY

Language: English Document Type: REVIEW

Geographic Location: USA

Subfile: CC LIFE--Current Contents, Life Sciences

Journal Subject Category: BIOCHEMICAL RESEARCH METHODS; CHEMISTRY,
ANALYTICAL

Abstract: Currently there are over 1 000 000 human expressed sequence tag
(EST) sequences available on the public database, representing
perhaps 50-90% of all human genes. The cDNA microarray technique is a
recently developed tool that exploits this wealth of information for
the analysis of gene expression. In this method, DNA probes
representing cDNA clones are arrayed onto a glass slide and
interrogated with fluorescently labeled cDNA targets. The power of
the technology is the ability to perform a genome-wide expression
profile of thousands of genes in one experiment. In our review we
describe the principles of the microarray technology as applied to
cancer research, summarize the literature on its use so far, and
speculate on the future application of this powerful technique.

Descriptors--Author Keywords: cDNA microarray; gene expression; cancer
research; review

Identifiers--KeyWord Plus(R): GENE-EXPRESSION; HUMAN GENOME; DNA
MICROARRAY; HYBRIDIZATION; PATTERNS; MAP

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18/5/14 (Item 5 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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06109969 Genuine Article#: XV699 Number of References: 22
Title: Purification and cloning of a proline 3-hydroxylase, a novel enzyme which hydroxylates free L-proline to cis-3-hydroxy-L-proline
Author(s): Mori H; Shibasaki T; Yano K; Ozaki A (REPRINT)
Corporate Source: KYOWA HAKKO KOGYO CO LTD,TOKYO RES LABS, 3-6-6
ASAHIMACHI/MACHIDA/TOKYO 194/JAPAN/ (REPRINT); KYOWA HAKKO KOGYO CO LTD,TOKYO RES LABS/MACHIDA/TOKYO 194/JAPAN/
Journal: JOURNAL OF BACTERIOLOGY, 1997, V179, N18 (SEP), P5677-5683
ISSN: 0021-9193 Publication date: 19970900
Publisher: AMER SOC MICROBIOLOGY, 1325 MASSACHUSETTS AVENUE, NW,
WASHINGTON, DC 20005-4171
Language: English Document Type: ARTICLE
Geographic Location: JAPAN
Subfile: CC LIFE--Current Contents, Life Sciences
Journal Subject Category: MICROBIOLOGY

Abstract: Proline 3-hydroxylase was purified from Streptomyces sp, strain TH1, and its structural gene was cloned, The purified enzyme hydroxylated free L-proline to cis-3-hydroxy-L-proline and showed properties of a 2-oxoglutarate-dependent dioxygenase (H, Mori, T, Shibasaki, Y, Uosaki, K. Ochiai, and A, Ozaki, Appl, Environ, Microbiol. 62:1903-1907, 1996), The molecular mass of the purified enzyme was 35 kDa as determined by sodium dodecyl sulfate-polyacrylamide gel electrophoresis, The isoelectric point of the enzyme was 4.3. The optimal pH and temperature were 7.0 and 35 degrees C, respectively, The K-m values were 0.56 and 0.11 mM for L-proline and 2-oxoglutarate, respectively, The k(cat) value of hydroxylation was 3.2 s(-1). Determined N-terminal and internal amino acid sequences of the purified protein were not found in the SwissProt protein database, A DNA fragment of 74 bp was amplified by PCR with degenerate primers based on the determined N-terminal amino acid sequence, With this fragment as a template, a digoxigenin- labeled N-terminal probe was synthesized by PCR, A 6.5-kbp chromosome fragment was cloned by colony hybridization with the labeled probe, The determined DNA sequence of the cloned fragment revealed a 870-bp open reading frame (ORF 3), encoding a protein of 290 amino acids with a calculated molecular weight of 33,158, No sequence homolog was found in EMBL, GenBank, and DDBJ databases, ORF 3 was expressed in Escherichia coli DH1, Recombinants showed hydroxylating activity five times higher than that of the original bacterium, Streptomyces sp, strain TH1, It was concluded that the ORF 3 encodes functional proline 3-hydroxylase.

Identifiers--KeyWord Plus(R): STREPTOMYCES; PROTEINS; 4-HYDROXYLASE;
BIOSYNTHESIS; QUANTITIES; MECHANISM; SEQUENCE

Research Fronts: 95-3190 002 (INCREASED ABUNDANCE OF SPECIFIC
SKELETAL-MUSCLE PROTEIN-TYROSINE PHOSPHATASES; ALPHA-B-CRYSTALLIN
EXPRESSION)

95-5061 002 (STRUCTURAL GENE; GLTC-DEPENDENT REGULATION OF
BACILLUS-SUBTILIS GLUTAMATE SYNTHASE EXPRESSION; ARABIDOPSIS TYPE-1
PROTEIN PHOSPHATASE)

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18/5/15 (Item 6 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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04912456 Genuine Article#: UR281 Number of References: 21

Title: SEQUENCE PATTERNS PRODUCED BY INCOMPLETE ENZYMATIC DIGESTION OR
ONE-STEP EDMAN DEGRADATION OF PEPTIDE MIXTURES AS PROBES FOR PROTEIN
DATABASE SEARCHES

Author(s): JENSEN ON; VORM O; MANN M

Corporate Source: EUROPEAN MOLEC BIOL LAB, MEYERHOFSTR 1/D-69012
HEIDELBERG//GERMANY//; EUROPEAN MOLEC BIOL LAB/D-69012
HEIDELBERG//GERMANY/

Journal: ELECTROPHORESIS, 1996, V17, N5 (MAY), P938-944

ISSN: 0173-0835

Language: ENGLISH Document Type: ARTICLE

Geographic Location: GERMANY

Subfile: SciSearch; CC LIFE--Current Contents, Life Sciences

Journal Subject Category: BIOMETHODS

Abstract: Mass spectrometric peptide mapping of proteins isolated by
polyacrylamide gel electrophoresis is a rapid method for identifying
proteins in sequence **databases**. A majority of tryptic peptide maps
were found to contain pairs of peptide **ion** peaks separated by the
molecular weight of the lysyl or arginyl residue. These peaks originate
from **amino acid sequence patterns** such as Lys-Lys where trypsin
has cleaved C-terminals to either one of the lysines. The peptide mass
and the **pattern** define an N- or C-terminal sequence **tag**. Searching
sequence **databases** by such a sequence **tag** results in only a
moderate number of matches and significantly reduces the number of
database matches when used in combination with a peptide mass map. Two
N- or C-terminal sequence **tags** alone unambiguously identify a protein
in most cases. The technique discussed here is simple, does not require
additional measurements, and increases the percentage of protein
samples that can be identified by their mass maps alone. N-Terminal
peptide sequence **tags** for **database** searching can also be generated
by manual one-step Edman degradation of the unseparated peptide
mixture.

Descriptors--Author Keywords: MATRIX-ASSISTED LASER DESORPTION IONIZATION ;
DATABASE SEARCHING ; MASS SPECTROMETRY ; PEPTIDE SEQUENCING ; PROTEIN
IDENTIFICATION

Identifiers--KeyWords Plus: IDENTIFICATION

Cited References:

BARTLETJONES M, 1994, V8, P737, RAPID COMMUN MASS SP
CLAUSER KR, 1995, V92, P5072, P NATL A

18/5/24 (Item 15 from file: 34)
DIALOG(R) File 34:SciSearch(R) Cited Ref Sci
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02135807 Genuine Article#: KD642 Number of References: 11
Title: A COMPARISON OF MODELS USED FOR CALCULATION OF RFLP PATTERN
FREQUENCIES

Author(s): HERRIN G
Corporate Source: GEORGIA BUR INVESTIGAT,DIV FORENS SCI/DECATUR//GA/00000
Journal: JOURNAL OF FORENSIC SCIENCES, 1992, V37, N6 (NOV), P1640-1651
ISSN: 0022-1198

Language: ENGLISH Document Type: NOTE

Geographic Location: USA

Subfile: SciSearch; CC CLIN--Current Contents, Clinical Medicine

Abstract: In recent years the application of DNA typing information to criminal investigations has gained widespread acceptance. The primary method currently in use relies on length variation of DNA restriction fragments between individuals. These variations are identified using variable number tandem repeat (VNTR) DNA probes. As this technology becomes more widely used, it is crucial that scientifically valid methods of interpreting the significance of a DNA typing result be adopted. The method chosen should not only give a reliable approximation of the statistical likelihood of a particular RFLP pattern occurring, but should also be easy to present and for the court to understand. In this manuscript five methods of calculating a frequency of occurrence of a RFLP pattern will be presented (fixed bin genotype, floating bin phenotype, floating bin genotype, National Research Council (NRC) method using fixed bins and the NRC method using floating bins). The calculations discussed here demonstrated that the fixed bin genotype method produces a frequency very similar to that obtained from floating bin phenotypes. In addition, regardless of the method chosen or the database size, the frequency of any particular banding pattern in the population over several loci was found to be very rare.

Descriptors--Author Keywords: CRIMINALISTICS ; RFLP STATISTICS ; DNA TYPING

Identifiers--KeyWords Plus: LOCI

Research Fronts: 91-0567 002 (DNA FINGERPRINTING; P-32 LABELED
OLIGONUCLEOTIDE PROBES; MULTIPLE PATERNITY IN WILD COMMON SHREWS
(SOREX-ARANEUS))

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